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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,426	05/24/2001	WuPo Ma	FORS-04946	4728

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MEDLEN & CARROLL, LLP
101 HOWARD STREET
SUITE 350
SAN FRANCISCO, CA 94105

EXAMINER

PATTERSON, CHARLES L JR

ART UNIT

PAPER NUMBER

1652

DATE MAILED: 05/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/864,426

Applicant(s)

MA ET AL.

Examiner

Charles L. Patterson, Jr.

Art Unit

1652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☒ Claim(s) 1-8 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

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Restriction to one of the following inventions is required under 35

U.S.C. 121:

1-75. Claims 1-3, drawn to a nucleic acid of SEQ ID NO:340, 345, 347, 350, 352, 358, 364, 366, 368, 373, 375, 379, 383, 387, 391, 395, 399, 401, 405, 407, 409, 411, 415, 417, 419, 423, 426, 428, 431, 435, 439, 443, 445, 447, 449, 452, 454, 455, 459, 463, 467, 471, 475, 481, 484, 495, 497, 499, 501, 505, 509, 513, 517, 521, 525, 529, 533, 537, 541, 549, 552, 559, 563, 565, 567, 571, 573, 575, 577, 579, 581, 583, 585, 587 or 589, a vector and a host cell, classified in class 435, subclass 252.3, 320.1 and class 536, subclass 23.2. The sequence number corresponds to the group number.

76. Claims 1-3 and 7, drawn to a nucleic acid of SEQ ID NO:543, a vector and a host cell, classified in class 435, subclass 252.3, 320.1 and class 536, subclass 23.2.

77-151. Claims 4-5, drawn to a polypeptide encoded by SEQ ID NO:340, 345, 347, 350, 352, 358, 364, 366, 368, 373, 375, 379, 383, 387, 391, 395, 399, 401, 405, 407, 409, 411, 415, 417, 419, 423, 426, 428, 431, 435, 439, 443, 445, 447, 449, 452, 454, 455, 459, 463, 467, 471, 475, 481, 484, 495, 497, 499, 501, 505, 509, 513, 517, 521, 525, 529, 533, 537, 541, 549, 552, 559, 563, 565, 567, 571, 573, 575, 577, 579, 581, 583, 585, 587 or 589, classified in class 435, subclass 199. The sequence number corresponds to the group number.

152. Claims 4-5 and 8, drawn to a polypeptide of SEQ ID NO:544, classified in class 435, subclass 199.

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153. Claim 6, drawn to a method for producing an altered enzyme with improved functionality in nucleic acid cleavage comprising providing the polypeptide of groups 77-152, the nucleic acid of groups 1-76, introducing heterologous domains into the nucleic acid to alter the enzyme, contacting the altered enzyme with the nucleic acid and comparing the cleavage products, classified in class 435, subclass 440.

The inventions are distinct, each from the other because:

Groups 1-76 and 77-151 are structurally different nucleic acids or proteins and are patentably distinct. Groups (1-76) and (77-151) are drawn to completely different chemical compounds and are patentably distinct.

Inventions 1-152 and 153 are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the nucleic acids of groups 1-76 could be used to produce enzymes and the polypeptides of groups 77-152 could be used for their enzymatic activity, not involved with the method of group 153.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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It is noted that apparently in claim 6 the SEQ ID NOs of the polypeptides listed in part a0 are actually nucleic acid sequences.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles L. Patterson, Jr., PhD, whose telephone number is 571-272-0936. The examiner can normally be reached on Monday - Friday from 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-308-4242.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Charles L. Patterson, Jr.
Primary Examiner
Art Unit 1652

Patterson
May 18, 2004